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# **ECS Requirements Allocation**

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# Topics

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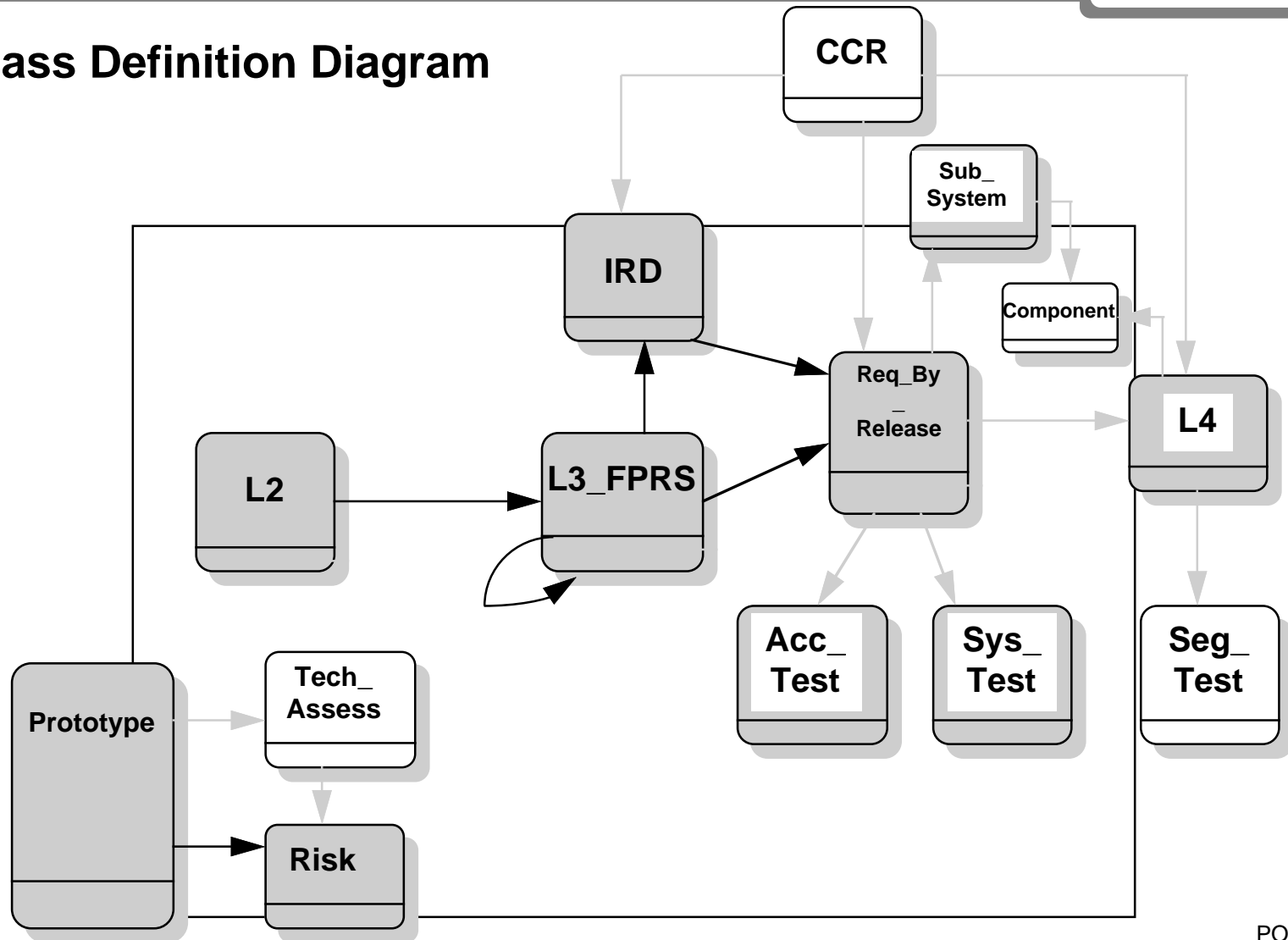


- **Allocation Process**
- **Mapping of Requirements**

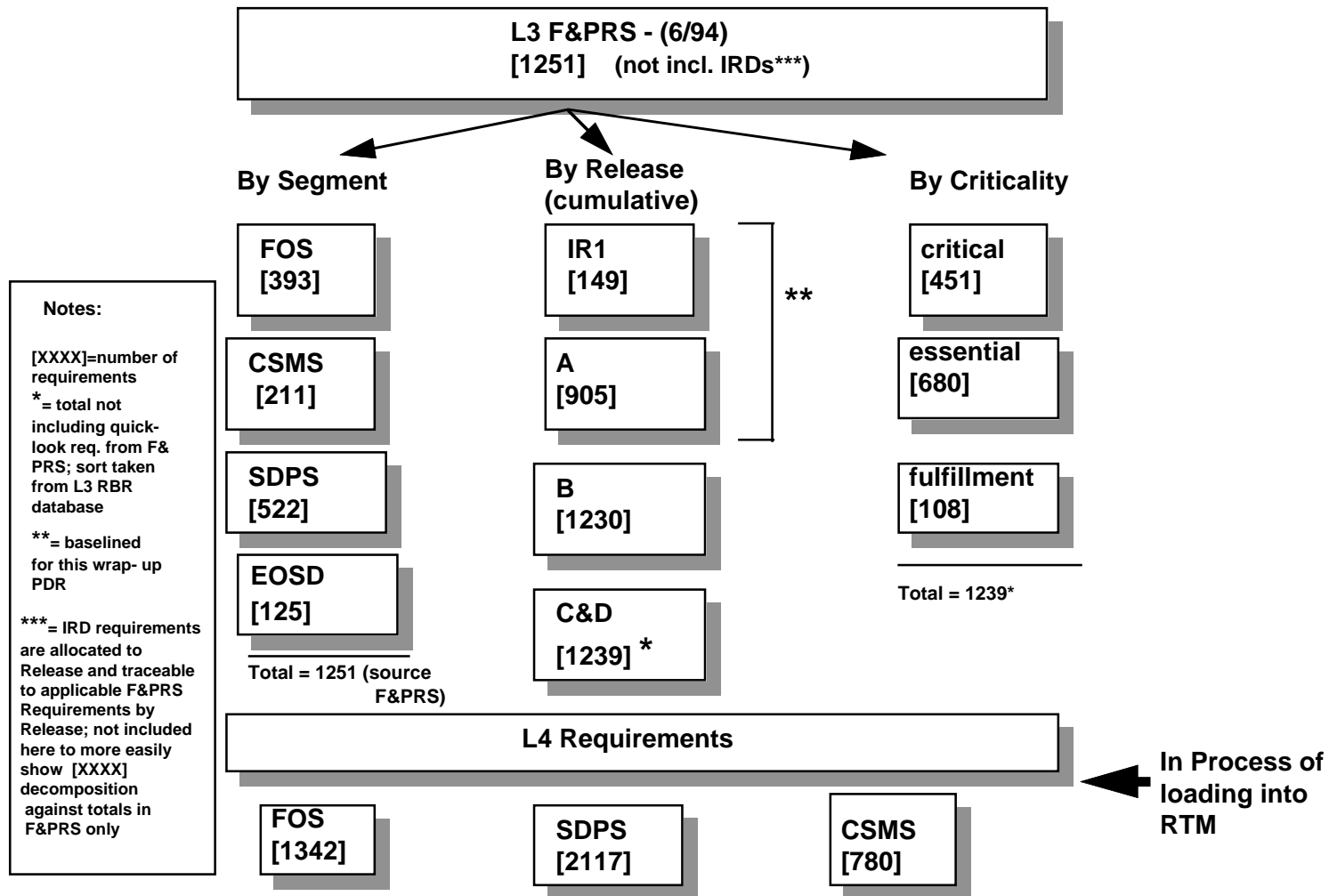
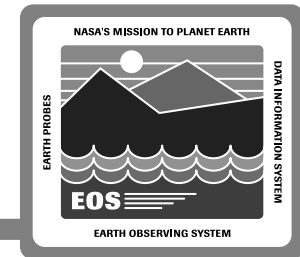
# Allocation Process



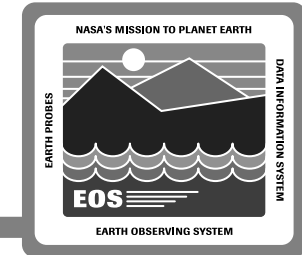
## RTM Class Definition Diagram



# Mapping of Requirements

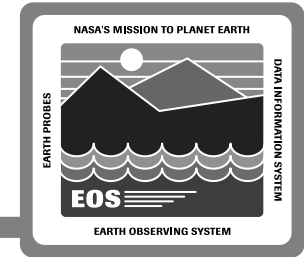


# Examples of Requirement by Release (RBR) Functional Content Change



RBR	Description	Clarification
<b><u>EOSD-1720</u></b>  Release B Release A Release A	ECS elements shall receive from the ECS user community the following types of data requests at a minimum: a. Data Acquisition Requests b. Data Distribution Requests c. Reprocessing Requests	Release A: b - limited to operable DAACs c - CERES/LIS for TRMM only for MSFC, LaRC  Release B: Full capability
<b><u>ICC-0050</u></b>  Release A Release B Release A	An ICC shall have the capability to interface with other ICCs both electronically and by voice to facilitate, at a minimum, the following: a. Planning of coordinated operations b. Resolution of conflicts c. Exchange of instrument status	Release A: Early capability  Release B: I/F WITH THE ASTER ICC
<b><u>DADS0290</u></b>  Release A ----- Release B	Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, and correctness of the data set granule size. ----- Each DADS shall check all metadata and data it receives. For each type of data described by the metadata, the data shall be checked for the presence of required fields, <u>error-free input</u> , correctness of the data set granule size, <u>and other checks as required.</u>	Release A: TRMM only  ----- Release B: Full capability

# Categorization of Requirements



## **Mission Critical**

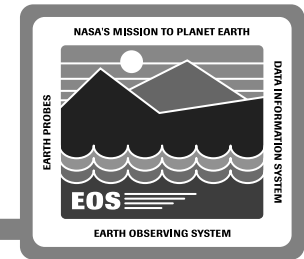
- **No data loss, ensure system does not lose any lower level data needed to generate downstream data (e.g. higher level products)**

## **Mission Essential**

- **Basic services for the long term data storage**
- **Data management necessary to provide services to the user community that serves the majority of earth science researcher service needs in basic data distribution**

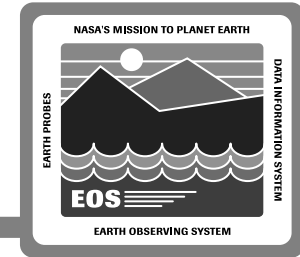
## **Mission Fulfillment**

- **Advanced services specifically targeted at increasing the earth science user's productivity**
- **Advanced services specifically targeted at meeting larger programmatic goals**
- **Advanced services providing intermediary support of educational, policy, social services community**
- **Advanced services for access to GCDIS and UserDIS**



# Back-up Charts

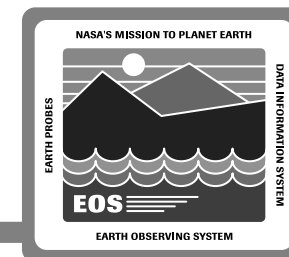
# Cumulative Through Release IR-1 [149]



	<u>Critical</u>	<u>Essential</u>	<u>Fulfillment</u>	<u>Total</u>
SDPS	0	58	0	58
CSMS	0	77	0	77
EOSD	0	10	4	14
FOS	0	0	0	0
	2	143	4	[149]

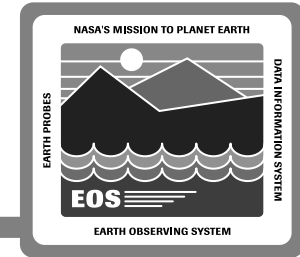


# Cumulative Through Release A [905]



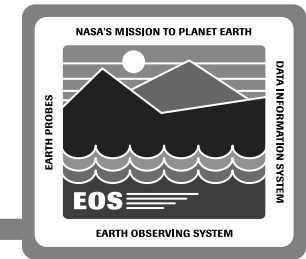
	<u>Critical</u>	<u>Essential</u>	<u>Fulfillment</u>	<u>Total</u>
SDPS	23	352	41	416
CSMS	71	93	11	175
EOSD	27	45	33	105
FOS	160	48	1	209
	281	538	86	[905]

# Cumulative Through Release B [1230]



	<u>Critical</u>	<u>Essential</u>	<u>Fulfillment</u>	<u>Total</u>
SDPS	41	420	52	513
CSMS	79	119	11	209
EOSD	33	51	38	122
FOS	296	89	1	386
	449	679	102	[1230]

# Cumulative Through Release C&D [1239]



	<u>Critical</u>	<u>Essential</u>	<u>Fulfillment</u>	<u>Total</u>
SDPS	42	419	55	516
CSMS	79	121	11	211
EOSD	33	51	38	122
FOS	297	89	4	390
	451	680	108	[1239]